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<p>(21) International Application Number: PCT/SG99/00009</p> <p>(22) International Filing Date: 22 February 1999 (22.02.99)</p> <p>(30) Priority Data: PCT/SG98/00102 16 December 1998 (16.12.98) SG</p> <p>(71) Applicant (for all designated States except US): KENT RIDGE DIGITAL LABS [SG/SG]; 21 Heng Mui Keng Terrace, Singapore 119613 (SG).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): NGAIR, Teow, Hin [SG/SG]; 334 Kang Ching Road #13-254, Singapore 610334 (SG). PANG, Hwee, Hwa [SG/SG]; 19 Shelford Road #01-42, Singapore 288408 (SG).</p> <p>(74) Agent: GREENE-KELLY, James, Patrick; Lloyd Wise, Tanjong Pagar, P.O. Box 636, Singapore 910816 (SG).</p>		<p>(81) Designated States: JP, SG, US. Published <i>With international search report.</i></p>	
<p>(54) Title: A METHOD FOR DETACHING AND RE-ATTACHING COMPONENTS OF A COMPUTING PROCESS</p> <p>(57) Abstract</p> <p>A method is described for detaching and then later re-attaching components of a computer process in which a process is split into a first process and a second sub-process. The sub-process may be a dormant process containing data, program modules and execution states not immediately required by the active first process. The dormant process is stored in a construct that may be kept in the computing device or may be sent to an external memory device. Alternatively the sub-process may comprise a permanently unwanted sub-process that is to be discarded. The invention allows maximum usage of limited resource computing systems.</p>			
<pre> sequenceDiagram participant Application as Application 210 participant Hibernaculum as Hibernaculum 220 participant Process as Process 230 participant Traditional as Traditional Operations Application->>Process: Load activate Process Application-->>Hibernaculum: deactivate Application Hibernaculum-->>Process: deactivate Hibernaculum Process->>Traditional: deactivate Process Note over Process: Construct 110 Note over Process: Send 120 Note over Process: Receive 130 Note over Process: Usurp 150 Note over Process: Bequeath 160 Note over Process: Mutate 180 Note over Traditional: Terminate </pre> <p>The diagram illustrates a sequence of operations involving four entities: Application 210, Hibernaculum 220, Process 230, and Traditional Operations. The process begins with Application 210 sending a 'Load' message to Process 230. Simultaneously, Application 210 sends a message to Hibernaculum 220. After receiving a response from Hibernaculum 220, Process 230 performs a 'Construct 110' operation. Subsequently, Process 230 sends a 'Send 120' message to a Stream and receives a 'Receive 130' message from another Stream. The process then performs 'Usurp 150' and 'Bequeath 160' operations. Finally, Process 230 performs a 'Mutate 180' operation before terminating. Traditional Operations are shown interacting with Process 230 during its execution.</p>			